USGS science for a changing world

Earthquake Shaking **Green** Alert

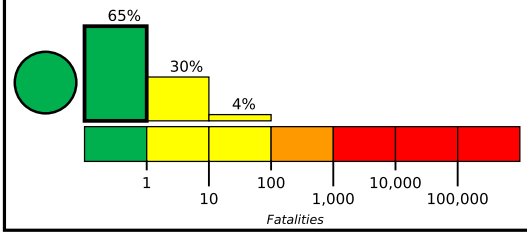
GSN ANSS USAID FROM THE AMERICAN PEOPLE

M 6.7, 62 km S of Hualien City, Taiwan

Origin Time: 2022-03-22 17:41:38 UTC (Wed 01:41:38 local)
Location: 23.4117° N 121.5624° E Depth: 24.0 km
FOR TSUNAMI INFORMATION, SEE: tsunami.gov

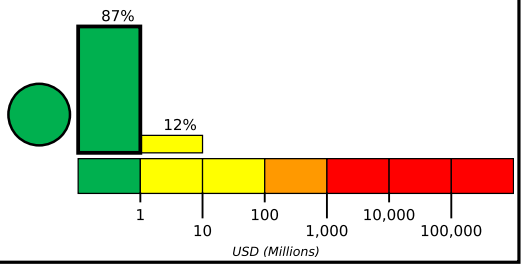
PAGER Version 7
Created: 1 day, 0 hours after earthquake

Estimated Fatalities



Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses

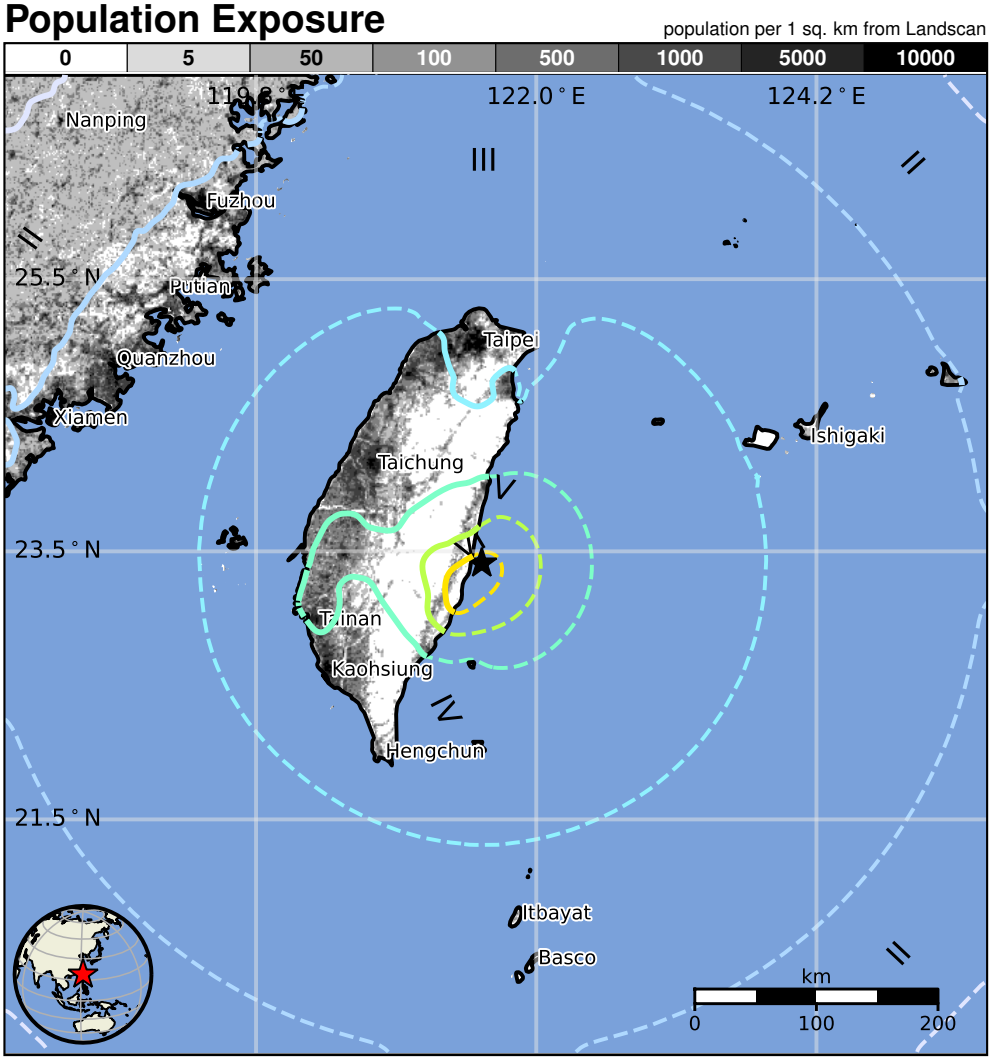


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		121k*	32,944k	14,336k	3,473k	68k	58k	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		**I**	**II-III**	**IV**	**V**	**VI**	**VII**	**VIII**	**IX**	**X+**
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	**Resistant Structures**	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are unknown/miscellaneous types and heavy wood frame construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1988-07-20	65	5.9	VII(226k)	1
1982-01-23	62	6.0	VII(146k)	1
1999-09-20	74	7.6	IX(1,778k)	2k

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
V	Hualien City	350k
V	Pizitou	5k
V	Jiayi Shi	<1k
V	Taitung	<1k
V	Taibao	<1k
V	Taitung City	110k
IV	**Kaohsiung**	**1,520k**
IV	Zhongxing New Village	26k
IV	**Taipei**	**7,872k**
III	Jincheng	38k
III	**Fuzhou**	**1,180k**

bold cities appear on map. (k=x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.
https://earthquake.usgs.gov/earthquakes/eventpage/us6000h6nr#pager

Event ID: us6000h6nr